MEMORANDUM FOR: All NWS Regional Headquarters, Regional

Maintenance Specialists, Electronic Systems

Analysts, and Electronics Technicians [Engineering Handbook (EHB)-13, Series II

distribution]

FROM: W/OPS1 - John McNulty Mak Source

SUBJECT: Transmittal Memorandum for EHB-13 Series II,

Issuance 02-05

## 1. <u>Material Transmitted:</u>

Engineering Handbook No. 13 Series II, Advanced Weather Interactive Processing System (AWIPS), section 3.1, AWIPS Software Installation Instruction Note 27, Maintenance Release 5.1.2.3

## 2. Summary:

AWIPS Software Installation Instruction Note 27, provides instructions to download and install maintenance release 5.1.2.3.

## 3. <u>Effect on Other Instructions:</u>

File this note in EHB-13, Series II, section 3.1. Discard all previous software installation instructions in section 3.1.



SERIES II

SECTION 3.1

AWIPS SOFTWARE INSTALLATION INSTRUCTION NOTE 27

(for Electronic Systems Analysts)

Maintenance, Logistics, & Acquisition Division

W/OPS1: FJZ

**SUBJECT**: Maintenance Release 5.1.2.3.

**PURPOSE**: To provide installation instructions for WWA patch.

PATCH NUMBER : P512\_SEC\_A100205

**AUTHORIZATION**: The authority for this modification note is Request for Change RC 205

**AFFECTED SITES**: All AWIPS Release 5.1.2.2 sites must install this maintenance release.

VERIFICATION STATEMENT

: The Release 5.1.2.3 installation procedures were tested and verified at LA Crosse, WI (ARX), Boston, MA (BOX), Dallas/Ft. Worth, TX (FWD),

Topeka, KS (TOP), and Norman, OK (OUN).

PREINSTALLATION: REQUIREMENTS

 R5.1.2.2 must be installed. Sites must complete the modifications/localization described in attachment A of AWIPS Software Installation Instruction Note 26, Maintenance Release 5.1.2.2.

Logouts of all D2D sessions and the Text Workstations

**TIME REQUIRED**: Approximately 25 minutes

**SECURITY LEVEL**: root

TECHNICAL SUPPORT

: For questions or problems regarding these installation instructions or installing this Release, please contact the NCF at 301-713-9344.

#### GENERAL

Summary of R5.1.2.3 fixes are:

- Ingest routines create unusable products in WWA or do not create products at all (DR10528)
- WWA bugs for severe thunderstorm and tornado watches (DR 10627)

## **R5.1.2.3 Detailed Description**

- The recommended product created within WWA from the ingest\_saw and ingest\_sev routines cannot be used within WWA. These products are saved with a wx\_hazard = "Severe Thunderstorm" and a specifc\_wx\_hazard = "These products are now represented in the WWA hazards menu after the 5.1.2.2 patch as wx\_hazard = "Severe Weather" and specifc\_wx\_hazard = "Severe Thunderstorm", as a result sites cannot click on the recommended product and create a new Severe Thunderstorm watch from that product. In addition, the ingest\_wcl and ingest\_wou programs will fail because they are unable to find an entry in the characteristics database with wx\_hazard = "Severe Thunderstorm" and specifc\_wx\_hazard = "". Root Cause: introduced by the R5.1.2.2 maintenance release.
- WWA bugs for severe thunderstorm and tornado watches (DR #10627) With the change to the new characteristics table, the generic and specific names for Severe Thunderstorm and Tornado Watches were changed. However, in the WWA client and WWA library, these names were hard coded using old names for these watches.

#### **PROCEDURE**

**NOTE:** Before proceeding with the installation, ensure:

- 1. Release 5.1.2.2 is installed.
- 2. Exit all WWA sessions on HP Workstations text workstations.
- 3. **Do not** log in via lx-1 or lx-2 since these will be rebooted by the install script. Log in via an HP workstation or the AWIPS xyplex to perform the installation.

#### A. Pre-installation

**NOTE:** There is a post install step in this mod note which requires template changes and localization. Ensure that the WWA/warngen focal point is available to perform the post install step.

 R5.1.2.3 addendum/lessons learned document contains additional R5.1.2.3 installation instructions. Prior to installation, download the latest lessons learned document at the following web page:

http://www.oso3.nws.noaa.gov/awips softwre.htm

2. For NDFD/RAP alpha software sites, no special pre and post installation instructions are required to install Maintenance Release 5.1.2.3.

## B. Maintenance Release Download and ds1 Installation Procedure

**NOTE:** PRC has pushed the R5.1.2.3.tar.Z file to the /data/local/R5.1.2.3 directory at each AWIPS site.

1. At an HP workstation, open a telnet window and log into ds1 as root by typing:

rlogin ds1-<site> -l root

2. Change to the /data/local/R5.1.2.3 directory by typing:

3. Scripting output for support purposes:

4. Uncompress the release bundle by typing:

5. Run installation script by typing:

6. Stop the output script by typing:

This completes the maintenance release download and installation procedure.

## C. Post Installation Configuration Checkout

1. Check if all files were removed/copied correctly. Check for cannot write: Text file busy. If present, the file must be manually removed.

This completes the post installation configuration checkout.

## D. Workstation Localization

- 1. This release requires a workstation localization. The localization **must** be done on one workstation at a time.
- 2. Two Warngen template files were changed. These new template files are located in /awips/fxa/data/localization/nationalData directory. The changed template files are listed below. These changes must be merged into custom templates, if the site is using this option. See step 6 and 7 below for information on merging site-specific changes into the new WWA templates.

```
WWA_tor_wat_SLS.preWWA
WWA svrt wat SLS.preWWA
```

3. On each workstation (one workstation at a time), the site MUST run the following

```
su - fxa
cd /fxa/data/localization/scripts
./mainScript.csh -wwa
```

- 4. After the localization, verify WWA operations.
- 5. Two template files are uploaded to

/awips/fxa/data/localization/nationalData.

Sites must verify the change made in the uploaded template files are found in the associated template files located in /data/fxa/customFiles (if the customFiles paradigm is used. If not, skip this step). If the files do not exist, sites must merge the changes and run a localization. The file names are: WWA\_svrt\_wat\_sls.preWWA and WWA\_tor\_wat\_sls.preWWA. If sites did not change the file names, the same files are found in customFiles & nationalData.

**NOTE:** Sites are asked to not change the names of WWA\_svrt\_wat\_sls.preWWA and WWA\_tor\_wat\_sls.preWWA.

**NOTE:** More detailed template file merge instructions are shown below. If the customFiles paradigm is not used, skip this step.

#### 6. SLS Tornado Watch

a. Using a preferred editor, edit

```
/data/fxa/customFiles/WWA_tor_wat_sls.preWWA
```

b. Verify the presence of the 6 fields highlighted in red below. If they are missing, add the field "area=wwa\_counties" when defining the <AREA | file=wwa\_zones ...> field of the template file. Do not forget to save the changes. The listing below is an example of a WWA\_tor\_wat.sls.preWWA template file:

```
//"SLS Tornado Watch"
^{issuance header |
#include "${CURRENT_CWA}-offtIncl.txt"
ZCZC CCCNNNXXX DEF&
TTAA00 KEAX <NOW | ddhhmm | gmt>&&
BULLETIN - IMMEDIATE BROADCAST REQUESTED&
AREAL OUTLINE FOR TORNADO WATCH NUMBER $$watchNumber!&
#include "${CURRENT_CWA}-headerIncl.txt"
<NOW | header | local >&
< PURGE |ddhhmm |gmt |last_table |trail=-& |var=expireTime >
}^
!{followup/clear/cancel header |
#include "${CURRENT_CWA}-offtIncl.txt"
ZCZC $$cccValue!SPS$$xxxValue! DEF&
TTAA00 KEAX <NOW | ddhhmm | qmt>&
<AREA |file=wwa_zones |area=wwa_counties | output_field=2 |</pre>
format=uqc>
<PURGE | ddhhmm | gmt | interval=15>-&&
   SPECIAL WEATHER STATEMENT&
#include "${CURRENT_CWA}-headerIncl.txt"
<NOW | header | local >&
< PURGE |ddhhmm |gmt |last_table |trail=-& |var=expireTime >
}!
```

```
^{hazard headline |
TORNADO WATCH NUMBER $$watchNumber! IN EFFECT UNTIL
<EXPIRE>.&&
#include "sls_county_list.template"
}^
!{hazard continue |
TORNADO WATCH #$$watchNumber! REMAINS IN EFFECT FOR...
<AREA |file=wwa_zones |area=wwa_counties |output_field=1</pre>
|format=list |trail=~[2,counties_type]...&>
}!
!{hazard clear |
TORNADO WATCH #$$watchNumber! HAS BEEN REMOVED FROM THE FOLLOWING
  AREAS...
<AREA | file=wwa_zones | area=wwa_counties | output_field=1</pre>
|format=list |trail=...&>
}!
!{hazard cancel |
TORNADO WATCH #$$watchNumber! THAT WAS IN EFFECT FOR...
<AREA | file=wwa_zones | area=wwa_counties | output_field=1</pre>
|format=list
   |trail=~[2,counties_type]...> HAS BEEN CANCELLED.
}!
!{hazard expansion |
TORNADO WATCH #$$watchNumber! HAS BEEN EXPANDED TO INCLUDE THE
        FOLLOWING AREAS...
<AREA |file=wwa_zones |area=wwa_counties |output_field=1</pre>
                     |trail=...&>
format=list
}!
!{hazard extension |
TORNADO WATCH #$$watchNumber! VALID FOR THE AREAS OF...
<AREA |file=wwa_zones |area=wwa_counties |output_field=1</pre>
|format=list
                      |trail=...> HAS BEEN EXTENDED UNTIL
<EXPIRE | plain>
}!
```

- 7. SLS Severe Thunderstorm Watch
  - a. Using a preferred editor, edit

```
/data/fxa/customFiles/WWA_svrt_wat.sls.preWWA
```

b. Verify the presence of the 6 fields highlighted in red below. If they are missing, add the field "area=wwa\_counties" when defining the <AREA|file=wwa\_zones ....> field of the template file. **Do not forget to save the changes.** The listing below is an example of a WWA\_svrt\_wat.sls.preWWA template file:

```
//"SLS Severe Thunderstorm Watch"
^{issuance header |
#include "${CURRENT_CWA}-offtIncl.txt"
ZCZC CCCNNNXXX DEF&
TTAA00 KEAX <NOW | ddhhmm | gmt>&&
BULLETIN - IMMEDIATE BROADCAST REQUESTED&
AREAL OUTLINE FOR SEVERE THUNDERSTORM WATCH NUMBER $$watchNumber!&
#include "${CURRENT_CWA}-headerIncl.txt"
<NOW | header | local >&
< PURGE |ddhhmm |gmt |last table |trail=-& |var=expireTime >
γ
!{followup/clear/cancel header |
#include "${CURRENT_CWA}-offtIncl.txt"
ZCZC $$cccValue!SPS$$xxxValue! DEF&
TTAA00 KEAX <NOW | ddhhmm | gmt>&
<AREA |file=wwa_zones |area=wwa_counties | output_field=2 | format=ugc >
< PURGE |ddhhmm |gmt |interval=15>-&&
SPECIAL WEATHER STATEMENT&
#include "${CURRENT CWA}-headerIncl.txt"
<NOW | header | local >&
< PURGE |ddhhmm |gmt |last_table |trail=-& |var=expireTime >
}!
\hazard headline |
SEVERE THUNDERSTORM WATCH NUMBER $$watchNumber! IN EFFECT UNTIL
<EXPIRE>.&&
#include "sls_county_list.template"
```

```
!{hazard continue |
SEVERE THUNDERSTORM WATCH #$$watchNumber! REMAINS IN EFFECT FOR...
<AREA |file=wwa_zones |area=wwa_counties |output_field=1 |format=list</pre>
   |trail=~[2,counties_type]...&>
}!
!{hazard clear |
SEVERE THUNDERSTORM WATCH #$$watchNumber! HAS BEEN REMOVED FROM THE
FOLLOWING AREAS...
<AREA |file=wwa_zones |area=wwa_counties |output_field=1 |format=list |trail=...&>
}!
!{hazard cancel |
SEVERE THUNDERSTORM WATCH #$$watchNumber! THAT WAS IN EFFECT FOR...
<AREA |file=wwa zones |area=wwa counties |output field=1 |format=list</p>
   |trail=~[2,counties_type]...> HAS BEEN CANCELLED.
}!
!{hazard expansion |
SEVERE THUNDERSTORM WATCH #$$watchNumber! HAS BEEN EXPANDED TO
INCLUDE THE FOLLOWING AREAS...
<AREA |file=wwa_zones |area=wwa_counties |output_field=1 |format=list |trail=...&>
}!
!{hazard extension |
SEVERE THUNDERSTORM WATCH #$$watchNumber! VALID FOR THE AREAS OF...
<AREA |file=wwa zones |area=wwa counties |output field=1 |format=list |trail=...> HAS BEEN
EXTENDED UNTIL <EXPIRE | plain>
}!
```

This completes the workstation localization procedure.

## REPORTING MODIFICATION

Report the completed modification on a WS Form A-26, Maintenance Record, according to the instructions in Engineering Handbook 4 (EHB-4), Engineering Management Reporting System (EMRS), Part 2, and Appendix I. A sample WS Form A-26 is attached. As an additional guide, use the information in the table below.

Block #	Block Type	Information						
5	Description	Install AWIPS Maintenance Release 5.1.2.3 (patch # 512_SEC_A100199) I.A.W. AWIPS Software Installation Instruction Note 27						
7	Equipment Code	AWIPS						
8	Serial Number	001						
15	Comments	Installed Maintenance Release 5.1.2.3 (patch # 512_SEC_A100199) I.A.W. AWIPS Software Installation Instruction Note 27						
17a	Mod. No.	S27						

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Mak S. Pase

Chief, Maintenance, Logistics, and Acquisition Division

Attachment - WS Form A-26 Sample

# Attachment

V	WS FORM A -26 (4/94)	WS FORM A -26 (4/94)  A -26 (4/94)  WS FORM A -26 (4/94)  NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL WEATHER SERVICE  ENGINEERING MANAGEMENT REPORTING SYSTEM  MAINTENANCE RECORD							STRATION SERVICE	Document Number <b>G 49978</b>							
I	General nformation		1. Open Date 3/ 28 /						•					Date 28 / 02	Time <b>1000</b>		
5. Description Install AWIPS maintenance release 5.1.2.3 (patch # P512_SEC_A100199) I.A.W. AWIPS Software Installation Instruction Note 27																	
Equipment Information			6. Station ID FFC	1			al Number <b>) 0 1</b>			9	9. TM M			10. AT <b>M</b>		11. How Mal. 999	
1 2. EQUIPMENT OPERATIONAL STATUS TIMES  a. Fully Operational b. Logistics Delay Partly Operational c. All Other d. Logistics Delay Not Operational e. All Other d. Logistics Delay n.											All Other						
13. Parts Failure Information 14. Work Loa Informati																	
Block #	a.	ASN			b.	NSN			c. TM	d. AT	How Mal.	f. Qty.	g. Main Hrs.	t.	Туре	Staff Hrs.	
1		1													a. Routine		
2														_  .	<b>b.</b> Non- routine		
3															c. Travel		
4														_   .	d. Misc.	1:00	
5															e. Overtime		
M		us	15. Maintenance Comments Installed maintenance release 5.1.2.3 (patch number												16. Initials		
	Informatio	n	P512_SEC_A100199 I.A.W. AWIPS Software Note 27. JMM													JMM	
17. SPECIAL PURPOSE REPORTING			a. Mod. No S27		b. Mod./Act./Deact.Date 3/28/02			d.						е.			
18. CONFIGURATION MGMT REPORTING (use as directed)			ASN Vendor Part Number				ıber (New Par	t)	) Serial Number (Old Part)				Serial Number (New Part)				